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Mathematics > Metric Geometry

curvature

(Submitted on 14 Jul 2011)

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Geometric analysis aspects of infinite

In the present paper, we apply Alexandrov geometry methods to study geometric analysis aspects of infinite semiplanar graphs with nonnegative combinatorial curvature in the sense of Higuchi. We

obtain the metric classification of these graphs and construct the graphs embedded in the projective

inequality on such graphs. The quadratic volume growth of these graphs implies the parabolicity. In

plane minus one point. Moreover, we show the volume doubling property and the Poincarl'e

addition, we prove the polynomial growth harmonic function theorem analogous to the case of

semiplanar graphs with nonnegative

Submission history

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